No. 20.323. Water Heater. (Réchauffeur d' Eau.)

Marmaduke Matthews, Toronto, Ont., 1st October, 1884; 5 years.

Claim.—1st. A burner A, provided with the air-tube a, and an air-space b between the air-tube a and wick c, in combination with the deflector B and flue or chimney C carried through the boiler E, substantially as and for the purpose specified. 2nd. A burner A, provided a is the purpose of the p with an air-tube a, arranged to support a perforated defector B, in combination with the deflector D, arranged substantially as and for the burpose specified. 3rd. A burner A, provided with a flue or chimney parsing through a boiler E, in combination with the coil F supported over the flue C and connected to the boiler E, substantially as and for the purpose specified.

No. 20,324. Spring Tooth Harrow.

(Herse à Dents Elastiques.)

Thoms Gray, Oshawa, Ont., 1st October, 1884; 5 years.

Claim.—1st. In spring tooth harrows, a harrow frame with tooth supporting bars extending outside the frame, and said bars or beams Cram.—Ist. In spring tooth narrows, a harrow trame with cooms supporting bars extending outside the frame, and said bars or beams carrying with both inside and outside the frame, substantially as and for the purpose shown. 2nd. A harrow frame carrying and supporting tooth bars or beams that will tilt or raise for the purpose of adjusting tooth bars or beams that will tilt or raise for the purpose of adjusting tooth with an offset or angle at one end, so adjusted as to fit the frame or bar it may be attached to, for the purpose of holding said tooth in proper position, substantially as and for the purpose shown. 4th. A spring harrow tooth thickened from the front back at the point or end that works in the ground, substantially as and for the purpose shown. 5th. A spring harrow tooth having its bow or curved part above, below and behind its connection with the bar or frame it is attached to, substantially as and for the purpose shown. 6th. The combination of the spring tooth and socket, said socket to receive a portion or part of the tooth, together with a part of the tooth bar or frame, and all the said parts to be securely fastened by means of one or more wedges or keys, substantially as and for the purpose shown. and for the purpsose shown.

No. 20,325. Cash and Parcel Carrier.
(Système de Transport de la Monnaie et des Paquets.)

Herbert L. Randale, (co-inventor with William H. Jones,) Montreal, Que., 1st October, 1884; 5 years.

Que., 1st October, 1884; 5 years.

Claim.—1st. The combination of the tube G having openings as and bs, tube H having openings c. bs, straps d, levers i and pswl h, boxes, tube H having openings c. bs, straps d, levers i and pswl h, boxes a having projections K; with pulleys L. M, and b and K having projections N, the whole substantially as described. 2nd. The combination of the tubes G and H, provided with slots I, openings h, N, c. bs, as described, pulleys L. M and t, hand K having projections whole substantially as described. 3rd. The combination of the tube G having openings b, as, tabe H having openings c, bs and traps d, constructed as described and shown, with box a, operated as described, and platform n, the whole constructed and arranged substantially described. 4th. The combination, in a tube, as described, provided with traps, as described, and with levers i and pawls h, arranged as k, the whole constructed, arranged and operated substantially as described, with boxes a provided with gr oves gt, ft and projections k, the whole constructed, arranged and operated substantially as described.

No. 20,326. Carpenter's Gauge. (Trusquin.)

George S. Forrest and Philip Pethick, Concord, N.H., U.S., 1st October, 1884; 5 years.

October, 1884; 5 years.

Claim.—1st. In a carpenter's gauge, the combination of the gauge-bar A having at either end the marking points B projecting from opposite sides thereof, with the double headed slide D provided with the thumb screw E, operating substantially as and for the purpose set forth. In a carpenter's gauge consisting of a gauge bar having suitable for setting the same, the adjustable tongues D, D1 having marking-brids, B1 for use as a gauge fitted to grooves in said gauge-bar, and movable head forming ways upon which said head may move, substantially, in the manner and for the purpose set forth. 3rd. In a carpenter's gauge consisting of a gauge-bar having suitable marking-beints, and a movable head provided with a thumb-screw for setting for use as a gauge fitted to grooves in said gauge-bar, and movable head forming ways upon which said head may move, and suitable springs for use as a gauge fitted to grooves in said gauge-bar, and movable head begins on the secured within the grooves in said head and bearing against said on gues D, D1, substantially as and for the purpose set forth. 4th. In Doints, and a movable head provided with a thumb screw for setting for use as a gauge consisting of a gauge-bar having suitable marking the same the adjustable tongues D, D1 having marking brads B1. B1 for use as a gauge fitted to grooves in said head and bearing against said a carpenters gauge consisting of a gauge-bar having suitable marking the same the adjustable tongues D, D1 having marking brads B1. B1 for use as a gauge fitted to grooves in said gauge bar and movable head B1, far ways upon which said head may move and suitable springs the same the adjustable tongues D, D1 having marking brads B1. B1 for use as a gauge fitted to grooves in said gauge bar and movable head B1, far ways upon which said head may move and suitable springs the stone said said said head may move and suitable springs the same said set forth. B1. B2 for use as a gauge fitted to grooves in said gauge bar and movable head B1, far Claim.—1st. In a carpenter's gauge, the combination of the gauge-bar

No. 20,327. Automatic Grain Binder.

(Lieuse Antomatique à Grain.)

The Massey Manufacturing Company, Toronto, Ont. (assignee of William N. Whitely, Springfield, Ohio, U. S.), 1st October, 1834;

The Massey Manufacturing Company, Toronto, Ont. (assignee of William N. Whitely, Springfield, Ohio, U. S.), 1st. October, 1884; 5 vears.

Claim.—1st. A butt rake 2 located on the elevator frame, and butt board I working in line with the deck platform of binding devices, but independent thereof. 2nd. A butt rake 2 connected with the butt board by a link 13, and carried on and driven by a crank 4 oxated on the level path of the company of the company of the link 13, and carried on and driving rake 4. with the shaft 5 and bevel-gear 6, in combination with combined bracket and pine-box 7, which holds as hi place on the elevator frame. 4th. A butt rake mounted above the binder deck or platform, in combination with a relief rake at the foot of the elevator and shafts 5, 13 and 16, whereby said rakes are driven by the same shafts, substantiands of the machine, and receiving power at it: rear end from the prime mover, combined with the shafts 5 and 13, actuated by said shaft 16, the butt rake 2, relief rake at fand reel (9, driven by chain from shaft 13, all actuated by power transmitted by said shaft 16. 6th. A head rake 2, relief rake at fand reel (9, driven by chain from shaft 13, all actuated by power transmitted by said shaft 16. 6th. A head rake 2, relief rake in such shaft 16, or the prime mover, combined with the shafts 5 and 13, actuated by said shaft 18, or roughly a shaft 16, and the shaft 18, or roughly a shaft 18, or ro 5 cars.

No. 20,328. Hanger for Sliding Doors.

(Ferrure pour Portes en Coulisse.)

Benjamin J. Cloes, Lake Bluff, and Charles B. George, Waukegan, Ill., U.S., 1st October, 1884; 5 years.

Claim.—Ist. In a hanger for sliding doors, the combination of two angle-irons secured one to the upper part of the door and the other to the wall of the structure above the door in everse order and overlapping each other, whereby the horizontal portion of the one attached to the door lies above the horizontal portion of the one at-